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TITLE : DENTAL FILLING COMPOSITION

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a dental filling composition excellent in the handleability and stability of its paste as well as good in the mechanical strength, the abrasion resistance, and the surface glossiness of its cured resin by incorporating a composite polymer powder and agglomerated particles of a second inorganic oxide as fillers.

SOLUTION: This composition is a dental filling composition that comprises (A) 100 pts.wt. polymerizable monomer, (B) 0.01 to 10 pts.wt. polymerization initiator, and (C) 40 to 400 pts.wt. combination of 1 to 99wt.% composite polymer powder obtained by mechanically kneading primary particles of an inorganic oxide having an average particle diameter of 0.01 to 1 μ m and a polymerizable monomer, followed by polymerization and crushing, with 99 to 1wt.% agglomerated particles of a second inorganic oxide having an average particle diameter of 1 to 100 μ m. The agglomerated particles are made up of primary particles of inorganic oxides composed of 1 to 99mol% silica and 99 to 1mol% at least one of elements of the Groups II to IV and having an average particle diameter of 0.01 to 1 μ m.

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